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In the Claims:

A detailed listing of the claims (as previously presented) is provided, below.

- 1. (Original.) A composite comprising a metallic substrate, a substantially amorphous and substantially non-porous aluminophosphate film and a component therebetween, said component comprising a phosphate group in bonded interaction with an oxide of a metal component of said substrate.
- 2. (Original.) The composite of Claim 1 wherein said aluminophosphate film comprises and aluminum content selected from less than stoichiometric, greater than stoichiometric and stoichiometric, said content relative on a molar basis to phosphorous.
- 3. (Original.) In the composite of Claim 1 further comprising nanoparticles selected from carbon and a metal compound.
- 4. (Original.) The composite of Claim 1 wherein said substrate is a steel alloy and said oxide is selected from an iron oxide and a chromium oxide.
- 5. (Original.) The composition of Claim 1 wherein said film has a thickness dimension of about 0.05 micron to about 10 microns.
- 6. (Original.) The composition of Claim 5 wherein said film has a thickness dimension from about 0.1 micron to about 1.0 microns.
- 7. (Original.) The composition of Claim 5 further including an organic component on said film.
 - 8. (Original.) The composition of Claim 5 wherein said film is opaque.
- 9. (Original.) A high-temperature stable composition comprising an aluminophosphate compound, said compound substantially amorphous, and carbon nanoparticles therein.
- 10. (Original.) The composition of Claim 9 further including nanoparticles of a metal compound.

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- 11. (Original.) The composition of Claim 9 wherein said aluminophosphate compound comprises an aluminum content selected from less than stoichiometric, greater than stoichiometric and stoichiometric, said content relative on a molar basis to phosphorous.
- 12. (Original.) The composition of Claim 11 wherein said aluminophosphate compound has an aluminum content greater than stoichiometric.
- 13. (Original.) The composition of Claim 9 comprising a coating on a substrate.
- 14. (Original.) A high-temperature stable, substantially amorphous aluminophosphate compound, said compound having an aluminum content relative to said phosphorous, said compound substantially absent chloride ion.
- 15. (Original.) The compound of Claim 14 further including carbon nanoparticles.
- 16. (Original.) The compound of Claim 14 further including nanoparticles of a metal compound.
- 17. (Original.) The compound of Claim 14 wherein said aluminum content is selected from less than stoichiometric, greater than stoichiometric and stoichiometric, said content relative to phosphorous.
 - 18.-21. (Previously Canceled.)
- 22. (Original.) A composite comprising a metallic substrate and a substantially amorphous, substantially non-porous aluminophosphate film on said substrate, said composite having a surface energy of about 32 mJ/m2.